

# PCT

## INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference <b>RPI-035CPPC</b>	<b>FOR FURTHER ACTION</b> see Notification of Transmittal of International Search Report (Form PCT/ISA/220) as well as, where applicable, item 5 below.	
International application No. <b>PCT/US 96/06200</b>	International filing date (day/month/year) <b>02/05/96</b>	(Earliest) Priority Date (day/month/year) <b>04/05/95</b>
Applicant <b>UNITED STATES OF AMERICA ... et al.</b>		

This international search report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This international search report consists of a total of 5 sheets.

☒ It is also accompanied by a copy of each prior art document cited in this report.

1. ☒ Certain claims were found unsearchable (see Box I).
2. ☐ Unity of invention is lacking (see Box II).
3. ☐ The international application contains disclosure of a nucleotide and/or amino acid sequence listing and the international search was carried out on the basis of the sequence listing
  - ☐ filed with the international application.
  - ☐ furnished by the applicant separately from the international application,
    - ☐ but not accompanied by a statement to the effect that it did not include matter going beyond the disclosure in the international application as filed.
  - ☐ Transcribed by this Authority
4. With regard to the title, ☒ the text is approved as submitted by the applicant.
  - ☐ the text has been established by this Authority to read as follows:
5. With regard to the abstract,
  - ☒ the text is approved as submitted by the applicant.
  - ☐ the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box III. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.
6. The figure of the drawings to be published with the abstract is:
  - Figure No. 4 ☐ as suggested by the applicant. ☐ None of the figures.
  - ☒ because the applicant failed to suggest a figure.
  - ☐ because this figure better characterizes the invention.

**Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)**

This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☒ Claims Nos.:  
because they relate to subject matter not required to be searched by this Authority, namely:  
Please see Further Information sheet enclosed.
2. ☐ Claims Nos.:  
because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:
3. ☐ Claims Nos.:  
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

**Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)**

This International Searching Authority found multiple inventions in this international application, as follows:

1. ☐ As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/210

Remark : Although claims 20 and 21 are directed to a method of treatment of (diagnostic method practised on) the human/animal body the search has been carried out and based on the alleged effects of the compound/composition.

A. CLASSIFICATION OF SUBJECT MATTER  
IPC 6 C12N15/87 C07K16/28 A61K48/00

According to International Patent Classification (IPC) or to both national classification and IPC.

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 6 A61K C07K C12N

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO,A,94 29436 (US GOVERNMENT ;UNIV MICHIGAN (US); REPLIGEN CORP (US)) 22 December 1994 see claims 1-14,22,24,27,28,3049 ---	1-21
X,P	WO,A,95 33823 (US GOVERNMENT ;UNIV MICHIGAN (US); REPLIGEN CORP (US); DANA FARBER) 14 December 1995 see the whole document ---	1-21
A	WO,A,95 03408 (DANA FARBER CANCER INST INC ;REPLIGEN CORP (US)) 2 February 1995 cited in the application see the whole document ---	1
A	WO,A,94 12196 (TANOX BIOSYSTEMS INC) 9 June 1994 see the whole document ---	1
-/--		

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

\* Special categories of cited documents :

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier document but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

"&" document member of the same patent family

Date of the actual completion of the international search

22 August 1996

Date of mailing of the international search report

28.08.96

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2  
NL - 2280 HV Rijswijk  
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,  
Fax: (+31-70) 340-3016

Authorized officer

Chambonnet, F

## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	WO,A,90 05541 (UNIV MICHIGAN ;SQUIBB BRISTOL MYERS CO (US)) 31 May 1990 see the whole document ---	1
P,A	WO,A,96 01122 (DANA FARBER CANCER INST INC) 18 January 1996 see the whole document ---	1
A,P	WO,A,95 34320 (UNIV MINNESOTA) 21 December 1995 see the whole document ---	1
P,A	WO,A,96 06942 (MAX PLANCK GESELLSCHAFT ;WEKERLE HARTMUT (DE); THOENEN HANS (DE);) 7 March 1996 see the whole document ---	1
P,A	WO,A,96 02646 (CYTOTHERAPEUTICS INC) 1 February 1996 see the whole document ---	1
A	CLINICAL RESEARCH, vol. 37, no. 4, 1989, page 902a XP000578889 GUBA, S.C. ET AL.: "Interleukin-3 gene induction in normal human T cells via stimulation of CD3 and CD28" see abstract -----	1

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
WO-A-9429436	22-12-94	AU-B- 7052194 CA-A- 2164226 EP-A- 0700430	03-01-95 22-12-94 13-03-96
WO-A-9533823	14-12-95	AU-B- 1333195	04-01-96
WO-A-9503408	02-02-95	AU-B- 7405294 EP-A- 0711345	20-02-95 15-05-96
WO-A-9412196	09-06-94	AU-B- 5729294	22-06-94
WO-A-9005541	31-05-90	CA-A- 2003455 EP-A- 0445228 GR-B- 1001504 IL-A- 92382 JP-T- 4502009	23-05-90 11-09-91 28-02-94 29-12-94 09-04-92
WO-A-9601122	18-01-96	AU-B- 2915295	25-01-96
WO-A-9534320	21-12-95	AU-B- 2701895	05-01-96
WO-A-9606942	07-03-96	AU-B- 3474595	22-03-96
WO-A-9602646	01-02-96	AU-B- 3142295	16-02-96